AMENDMENTS TO THE CLAIMS

- 1. (Original) A method of fixing a low-molecular compound on a solid-phase support, comprising the steps of:
- (1) bringing a solution containing a low-molecular compound into contact with a solidphase support having a photoreactive compound bonded to the surface;
- (2) evaporating to dryness the solution containing the low-molecular compound in the state of being in contact with the solid-phase support; and
- (3) irradiating the solid-phase support with light to form a covalent bond between the photoreactive compound and the low-molecular compound.
- 2. (Original) The method of fixing a low-molecular compound on a solid-phase support according to Claim 1, wherein the photoreactive compound is a compound capable of generating a nitrene, a carbene, a radical or a carbon electrophilic agent.
- 3. (Original) The method of fixing a low-molecular compound on a solid-phase support according to Claim 1, wherein the photoreactive compound is a compound having a diazonium, azide, diazirine or diazo group as a part of the structure.
- 4. (Original) The method of fixing a low-molecular compound on a solid-phase support according to Claim 1, wherein the photoreactive compound is a compound represented by formula (I):

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$$Y^5$$
 Y^1
 Y^2
 Y^2
 Y^3

wherein X denotes $-N_3$, $-C^*(R^1)N=N^*$ (both the "*"s are linked together to form a three-membered ring), $-N_2^+Z^-$, $-C(R^2)=0$, $-CH=CH_2$, $-NO_2$, $-NH_2$, $-C(=0)N_3$, -Cl or $-NH-CH_2-CO-CH=N_2$; R^1 denotes a hydrogen atom, an alkyl group which may have a substituent or an aryl group which may have a substituent; R^2 denotes an aryl group which may have a substituent; Z^- denotes an anion; any one of Y^1 , Y^2 , Y^3 , Y^4 and Y^5 denotes a group which is capable of reacting with a functional group carried on the surface of the solid-phase support to form a covalent bond and the other four members independently to one another denote a hydrogen or halogen atom.

- 5. (Currently Amended) The method of fixing a low-molecular compound on a solid-phase support according to any one of claims 1 to 4 Claim 1, wherein the solid-phase support is a support for a microarray.
- 6. (Original) A low-molecular microarray produced by a method as recited in Claim 5.
- 7. (Original) A method of detecting a substance capable of interacting with a low-molecular compound, comprising the steps of:

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(1) bringing a low-molecular microarray as recited in Claim 6 into contact with a solution which contains a test substance to be detected having a label;

- (2) removing any substance which fails to bind to the low-molecular compound; and
- (3) detecting the label of the test substance.
- 8. (Previously Presented) A method of identifying an interaction site on a low-molecular compound, comprising the steps of:
- (1) mixing a photoreactive compound with a low-molecular compound capable of interacting with a given substance;
- (2) irradiating the mixture with light to form a covalent bond between the photoreactive compound and the low-molecular compound;
- (3) separating complexes of the photoreactive compound and the low-molecular compound into different groups in accordance with the difference in binding site on the low-molecular compound;
 - (4) fixing each of the separated complexes on a solid-phase support;
- (5) bringing the complexes fixed to the solid-phase support into contact with a solution containing the given compound which has a label; and
- (6) among the complexes fixed to the solid-phase support, selecting those complexes from which the label is not detected, to identify the binding site between the low-molecular compound and the photoreactive compound on the complexes.

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9. (Currently Amended) The method of fixing a low-molecular compound on a solid-phase support according to any one of claims 1 to 4 Claim 1, wherein the solid-phase support is beads.

- 10. (Currently Amended) Beads having a low-molecular compound fixed thereon produced by a method as recited in any one of Claims 1 to 4 Claim 1.
- 11. (Original) A method of purifying a substance capable of interacting with a low-molecular compound, comprising the steps of:
- (a) bringing beads as recited in Claim 10 into contact with a solution containing a sample substance; and
 - (b) removing any substances which are unbound to the low-molecular compound.
- 12. (Original) A method of detecting a substance capable of interacting with a low-molecular compound, comprising the steps of:
- (a) bringing beads as recited in Claim 10 into contact with a solution containing a test substance to be detected which has a label;
 - (b) removing any substances which fails to bind to the low-molecular compound; and
 - (c) detecting the label of the test substance.

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